1. LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) A ribozyme that specifically cleaves an mRNA encoding an IGF-1 receptor polypeptide that causes or contributes to the disease, disorder, or dysfunction of a cell or a tissue of a mammalian eye, and wherein said ribozyme specifically cleaves an mRNA that comprises the sequence of SEQ ID NO:88 or SEQ ID NO:89.
- (Withdrawn) The ribozyme of claim 1, wherein said ribozyme specifically cleaves an mRNA encoding a polypeptide selected from the group consisting of rod opsin, RP1,
 RDS/Peripherin, iNOS, A_{2B} receptor, IGF-1 receptor, alpha 1, alpha 3, and alpha V.)
- 3. (Withdrawn) The ribozyme of claim 2, wherein said ribozyme (a) comprises the sequence of any one of SEQ ID NO:2, or SEQ ID NO:90 to SEQ ID NO:105, or (b) specifically cleaves an mRNA comprising a sequence selected from any one of SEQ ID NO:1, or SEQ ID NO:3 to SEQ ID NO:89.
- 4. (Currently Amended) The ribozyme of claim 31, wherein said ribozyme comprises a sequence selected from the group consisting of SEQ ID NO:2, the sequence of SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100 or SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, and SEQ ID NO:105.

- (Withdrawn) The ribozyme of claim 2, wherein said ribozyme specifically cleaves an mRNA encoding a polypeptide selected from the group consisting of a mutant rod opsin polypeptide, a mutant RP1 polypeptide, a mutant RDS/Peripherin polypeptide, a mutant iNOS polypeptide, a mutant A_{2B} receptor polypeptide, a mutant IGF-1 receptor polypeptide, a mutant alpha 1 polypeptide, a mutant alpha 3 polypeptide, and a mutant alpha V polypeptide.
- 6. (Withdrawn) The ribozyme of claim 5, wherein said ribozyme specifically cleaves an mRNA encoding a mutant rod opsin polypeptide.
- (Withdrawn) The ribozyme of claim 6, wherein said ribozyme specifically cleaves an mRNA encoding a mutant rod opsin polypeptide that comprises a mutation selected from the group consisting of P23H, P23L, Q28H, F45L, L46R, G51A, G51G, G51R, G51V, P53R, T58R, Q64stop, 68-71, V87D, G90D, G106W, C110Y, G114D, R135G, R135L, R135P, P171L, P171S, Y178C, P180A, C187Y, G188R, D190G, D190Y, M207R, H211R, H211P, F220C, C264X, P267L, F220C, C222R, A292E, Q344stop, and P347S.
- 8. (Withdrawn) The ribozyme of claim 1, wherein said ribozyme specifically cleaves an mRNA that comprises a nucleotide sequence selected from the group consisting of SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID

NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, and SEQ ID NO:91.

- 9. (Withdrawn) The ribozyme of claim 5, wherein said ribozyme specifically cleaves an mRNA encoding a mutant RP1 polypeptide, or an A_{2B} receptor polypeptide.
- 10. (Withdrawn) The ribozyme of claim 9, wherein said ribozyme specifically cleaves an mRNA comprising the sequence of SEQ ID NO:64 or SEQ ID NO:1.
- 11. (Withdrawn) The ribozyme of claim 5, wherein said ribozyme specifically cleaves an mRNA encoding a mutant RDS/Peripherin polypeptide.
- 12. (Withdrawn) The ribozyme of claim 11, wherein said ribozyme specifically cleaves an mRNA encoding a mutant RDS/Peripherin polypeptide that comprises a mutation selected from the group consisting of C118, R172Q, R172W, P210R, C214S, P216L, and P219.

- 13. (Withdrawn) The ribozyme of claim 12, wherein said ribozyme specifically cleaves an mRNA that comprises a sequence selected from the group consisting of SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, and SEQ ID NO:77.
- 14. (Original) The ribozyme of claim 1, wherein said molecule is a hammerhead ribozyme.
- 15. (Original) The ribozyme of claim 1, wherein said molecule is a hairpin ribozyme.
- 16. (Original) A vector comprising a polynucleotide encoding the ribozyme of claim 1, said polynucleotide operably linked to at least a first promoter element that directs expression of said polynucleotide in a mammalian cell.
- 17. (Original) The vector of claim 16, wherein said vector is a viral vector.
- 18. (Original) The vector of claim 17, wherein said viral vector is an adeno-associated viral vector.
- 19. (Original) The vector of claim 16, wherein said promoter element directs expression of said polynucleotide in a retinal cell.

- 20. (Original) The vector of claim 16, wherein said promoter element directs expression of said polynucleotide in a photoreceptor cell.
- 21. (Original) The vector of claim 16, wherein said promoter element directs expression of said polynucleotide in a rod or a cone cell.
- 22. (Original) The vector of claim 16, wherein said promoter element directs expression of said polynucleotide in a Mueller cell, or a retinal pigement epithelium cell.
- 23. (Original) The vector of claim 16, wherein said promoter element comprises a mammalian rod opsin promoter element.
- 24. (Original) The vector of claim 16, wherein said promoter element comprises a constitutive or an inducible promoter element.
- 25. (Original) A virus comprising the ribozyme of claim 1, or a polynucleotide that encodes the ribozyme of claim 1.
- 26. (Original) The virus of claim 25, wherein said virus is an adenovirus or an adenoassociated virus.
- 27. (Original) An adeno-associated viral vector comprising the ribozyme of claim 1, or a polynucleotide that encodes the ribozyme of claim 1.

- 28. (Original) The adeno-associated viral vector of claim 27, wherein said polynucleotide is operably linked to at least a first regulatory element that directs expression of said polynucleotide in a mammalian cell.
- 29. (Original) The adeno-associated viral vector of claim 28, wherein said regulatory element comprises a promoter that expresses said polynucleotide in a cell of a human eye.
- 30. (Original) A host cell that comprises:
 - (a) the ribozyme of claim 1;
 - (b) the vector of claim 16;
 - (c) the virus of claim 25; or
 - (d) the adeno-associated viral vector of claim 27.
- 31. (Original) The host cell of claim 30, wherein said cell is a mammalian host cell.
- 32. (Original) The host cell of claim 31, wherein said mammalian host cell is a human cell.
- 33. (Original) The host cell of claim 32, wherein said human cell is a retinal cell.
- 34. (Original) The host cell of claim 33, wherein said retinal cell is a photoreceptor cell.
- 35. (Original) The host cell of claim 34, wherein said retinal cell is a photoreceptor rod or cone cell.

		(Original) A composition comprising:	
	(a) the ribozyme of claim 1;(b) the vector of claim 16;(c) the virus of claim 25; or		
37.	(Origin	nal) The composition of claim 36, further comprising a pharmaceutical excipient	
38.	(Origin	nal) The composition of claim 37, wherein said pharmaceutical excipient is	
	suitabl	e for ocular or subretinal administration to a mammalian eye.	
39.	(Origin	al) The composition of claim 36, further comprising a lipid, a liposome, a rticle, or a microsphere.	
40.	(Original) A kit comprising:		
	(a) (i)	the ribozyme of claim 1;	
	(ii) the vector of claim 16;	
	(ii	i) the virus of claim 25; or	
	(iv	the adeno-associated viral vector of claim 27; and	
	(b) ins	structions for using said kit.	
41.	(Origina	d) A kit comprising the composition of claim 36, and instructions for using	

- 42. (Original) The kit of claim 41, further comprising device for delivering said composition to the eye, retina, or subretinal space of a mammal.
- 43. (Withdrawn) A method for decreasing the amount of mRNA encoding a selected polypeptide in a retinal cell of a mammalian eye, comprising providing to said eye an amount of the composition of claim 36, and for a time effective to specifically cleave said mRNA in said cell, and thereby decrease the amount of mRNA in said cell.
- 44. (Withdrawn) The method of claim 43, wherein said ribozyme specifically cleaves an mRNA encoding a polypeptide that causes a pathological condition in, or contributes to a disease, disorder, or dysfunction in a cell or a tissue of a mammalian eye.
- 45. (Withdrawn) The method of claim 43, wherein said composition is provided to said eye by direct administration, ocular injection, retinal injection, or subretinal injection.
- 46. (Withdrawn) The method of claim 44, wherein said pathological condition is selected from the group consisting of retinal degeneration, retinitis, macular degeneration, or retinopathy.
- 47. (Withdrawn) The method of claim 46, wherein said retinitis is retinitis pigmentosa.
- 48. (Withdrawn) The method of claim 46, wherein said pathological condition is autosomal dominant retinitis pigmentosa or autosomal recessive retinitis pigmentosa.

- 49. (Withdrawn) The method of claim 46, wherein said pathological condition is macular degeneration.
- 50. (Withdrawn) The method of claim 49, wherein said pathological condition is agerelated macular degeneration.
- 51. (Withdrawn) The method of claim 46, wherein said pathological condition is retinopathy.
- 52. (Withdrawn) The method of claim 51, wherein said pathological condition is diabetic retinopathy.
- 53. (Withdrawn) A method for decreasing the amount of a selected polypeptide in a cell or tissue of a mammalian eye, comprising providing to said eye an amount of the ribozyme of claim 1 and for a time effective to specifically decrease the amount of said selected polypeptide in said cell or said tissue.
- Of a mammal suspected of having a pathological condition selected from the group consisting of retinal degeneration, retinitis, macular degeneration, and retinopathy, comprising directly administering to said eye: (a) the ribozyme of claim 1, (b) the vector of claim 16, (c) the virus of claim 25, or (d) the adeno-associated viral vector of claim 27, in an amount and for a time effective to specifically cleave an mRNA

encoding said selected polypeptide, and thereby decreasing the amount of said polypeptide in said eye.

- (Withdrawn) A method for treating, decreasing the severity, or ameliorating the symptoms of a pathological condition that results from the expression of at least a first selected polypeptide in a cell or a tissue of a human eye, said method comprising directly administering to said eye: (a) the ribozyme of claim 1, (b) the vector of claim 16, (c) the virus of claim 25, or (d) the adeno-associated viral vector of claim 27, in an amount and for a time effective to treat, decrease the severity, or ameliorate the symptoms of said pathological condition.
- (Withdrawn) The method of claim 55, wherein said symptoms are selected from the group consisting of atrophic lesions of the eye, pigmented lesions of the eye, blindness, a reduction in central vision, a reduction in peripheral vision, and a reduction in total vision.
- (Withdrawn) A method for decreasing the progression of a degenerative pathological condition of a mammalian eye, comprising providing to said eye: (a) the ribozyme of claim 1, (b) the vector of claim 16, (c) the virus of claim 25, or (d) the adeno-associated viral vector of claim 27, in an amount and for a time effective to decrease the progression of said degenerative pathological condition.
- 58. (Previously Presented) A ribozyme that specifically cleaves an mRNA encoding a polypeptide that causes or contributes to the disease, disorder, or dysfunction of a cell or

a tissue of a mammalian eye, wherein said ribozyme comprises the sequence of SEQ ID NO:100.

59. (Previously Presented) A ribozyme that specifically cleaves an mRNA comprising the sequence of SEQ ID NO:88.